

PCT09

#6

## RAW SEQUENCE LISTING

DATE: 10/11/2001

PATENT APPLICATION: US/09/937,646

TIME: 10:02:43

Input Set : A:\ES.txt

Output Set: N:\CRF3\10112001\I937646.raw

3 <110> APPLICANT: Lex M. Cowser  
 4 C. Frank Bennett  
 5 Bert W. O'Malley  
 8 <120> TITLE OF INVENTION: ANTISENSE MODULATION OF SRA EXPRESSION  
 10 <130> FILE REFERENCE: RTSP-0153  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/937,646  
 C--> 13 <141> CURRENT FILING DATE: 2001-09-27

ENTERED

15 <150> PRIOR APPLICATION NUMBER: US 09/280,409  
 16 <151> PRIOR FILING DATE: 1999-03-29  
 18 <160> NUMBER OF SEQ ID NOS: 146  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 626  
 23 <212> TYPE: DNA  
 24 <213> ORGANISM: Homo sapiens  
 26 <400> SEQUENCE: 1

27	ggcggaccca	ggcgctcgct	gcttaccaag	agggtagccg	caccccagga	tggatcccc	60
29	agagtccccg	catcagagac	ttctcctggg	cctcccccaa	tggggcctcc	acctccttca	120
31	agtaaggctc	ccagggtccc	acctgtgggg	agtggctcctg	cctctggcgt	ggagcccaca	180
33	agtttcccag	tcgagctctga	ggctcgactg	atggaggatg	tgctgagacc	tttggaacag	240
35	gcattggaag	actgccgtgg	ccacacaagg	aagcagggtat	gtgatgacat	cagccgacgc	300
37	ctggcactgc	tgcaaggaca	gtgggctgga	ggaaagtgtg	caatacctgt	aaagaagaga	360
39	atggctctac	tggtgcaaga	gctttcaagc	caccggtggg	acgcagcaga	tgacatccac	420
41	cgctccctca	tggttgacca	tgtgactgag	gtcagtcagt	ggatggtagg	agttaaaaga	480
43	ttaattgcag	aaaagaggag	tctgttttca	gaggaggcag	ccaatgaaga	gaaatctgca	540
45	gccacagctg	agaagaacca	taccatacca	ggcttccagc	aggcttcata	atcctcggtt	600
47	ccccagactc	accggacacc	atctcc				626

49 <210> SEQ ID NO: 2  
 50 <211> LENGTH: 859  
 51 <212> TYPE: DNA  
 52 <213> ORGANISM: Homo sapiens  
 54 <400> SEQUENCE: 2

55	cggcaacaag	gaacgcggct	ggaacgaccc	gccgcagttc	tcatacgggc	tgcaagccca	60
57	ggcggcgga	cccaggcgct	cgctgcttac	caagagggtc	gccgcacccc	aggatggatc	120
59	ccccagagtc	cccgcatcag	agactttctc	tgggcctccc	ccaatggggc	ctccacctcc	180
61	ttcaagtaag	gtctccaggt	ccccacctgt	ggggagtggg	cctgcctctg	gcgtggagcc	240
63	cacaagtttc	ccagtcgagt	ctgaggctcg	actgatggag	gatgtgctga	gacctttgga	300
65	acaggcattg	gaagactgcc	gtggccacac	aaggaagcag	gtatgtgatg	acatcagccg	360
67	acgcctggca	ctgctgcagg	aacagtgggc	tggaggaaag	ttgtcaatac	ctgtaaagaa	420
69	gagaatggct	ctactggtgc	aagagctttc	aagccaccgg	tgggacgcag	cagatgacat	480
71	ccaccgctcc	ctcatggttg	accatgtgac	tgaggctcagt	cagtggatgg	taggagttaa	540
73	aagattaatt	gcagaaaaga	ggagtctgtt	ttcagaggag	gcagccaatg	aagagaaatc	600
75	tgcaagccca	gctgagaaga	accataccat	accaggcttc	cagcaggctt	cataatcctc	660
77	ggttccccag	actcaccgga	caccatctcc	tatgccttgg	agaccttctg	tcacttggct	720
79	cccttcttac	caccaccaag	actgtcccac	tgggcctgac	ccacctatga	gggaagaagt	780
81	cccacctggg	ccagagggag	ttcatgtgtt	actcataaca	tgcatttcaa	taaaaacatc	840
83	tctgcggtga	aaaaaaaa					859

86 <210> SEQ ID NO: 3

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87 &lt;211&gt; LENGTH: 1086

88 &lt;212&gt; TYPE: DNA

89 &lt;213&gt; ORGANISM: Homo sapiens

91 &lt;400&gt; SEQUENCE: 3

```

92   gtagcgaccg gcgctcagct ggcgtcgccc cggcctaggc tgggggcggt tgcggcgctt    60
94   agtatggacc ctctgtctcc cccagcccca gtatcagcta acagtggagt tccgggcctc    120
96   gcttcacaca tccctcgct cgcaggcaa caaggaacgc ggctggaacg acccgccgca    180
98   gttctcatac gggctgcaga cccaggccgg cggaccagg cgctcgctgc ttaccaagag    240
100  ggtagccgca cccaggatg gatccccag agtccccgca tcagagactt ctctggggcc    300
102  tcccccaatg gggcctccac ctcttcaag taaggctccc aggtcccccac ctgtggggag    360
104  tggctctgcc tctggcgctg agcccacaag ttcccagtc gagtctgagg ctcgactgat    420
106  ggaggatgtg ctgagacctt tggaacaggc attggaagac tgccgtggcc acacaaggaa    480
108  gcaggatatg gatgacatca gccgacgcct ggcaactgtg caggaacagt gggctggagg    540
110  aaagtgtgca atacctgtaa agaagagaat ggctctactg gtgcaagagc tttaagcca    600
112  ccggtgggac gcagcagatg acatccaccg ctccctcatg gttgaccatg tgactgaggt    660
114  cagtcagtgg atggtaggag ttaaaagatt aattgcagaa aagaggagtc tgttttcaga    720
116  ggaggcagcc aatgaagaga aatctgcagc cacagctgag aagaaccata ccataccagg    780
118  cttccagcag gcttcataat cctcggttcc ccagactcac cggacaccat ctcttccgg    840
120  tgccaagcta gtcctctctg tgtctctcag tgccctgctc cctgtgtatc tgcaaacctc    900
122  tgttctccct tctccattca tcaggaaggg atctgctggg taaagtcaga ctactgccta    960
124  ccactttttc ccaaagtaga ctgaacaagc atctgtgctt gggcgaggca gctgtgtttg   1020
126  gatggtttca tttcagcatg agaacagact caaatagaac gggccggaat tccgccgata   1080
128  ctgacg                                           1086

```

132 &lt;210&gt; SEQ ID NO: 4

133 &lt;211&gt; LENGTH: 1123

134 &lt;212&gt; TYPE: DNA

135 &lt;213&gt; ORGANISM: Homo sapiens

137 &lt;400&gt; SEQUENCE: 4

```

138  actcctggag cccgtcagta tcggcggccc tcatcacgtc cccacactgg ctgtacagga    60
140  tcttgccatc cccactcgg tcaaacagct cgaaggcctc cttgaactcc tccagctggg    120
142  ccttgtaaaa ctcgatcacc actttggaga gatcgactgg aggtcctctg gttttctgag    180
144  gggcctgggg gacagctggc tcagcttttg tcttggtctg aggagccctt gctgctgctg    240
146  gcttagcagc aggtttggag atggaggagc tgtacgtgaa gccgggcaac aaggaaacgcg    300
148  gctggaacga cccgccgcag ttctcatacg ggctgcagac ccaggccggc ggaccagggc    360
150  gctcgctgct taccaagagg gtagccgcac cccaggatgg atccccaga gtccccgcct    420
152  cagagacttc tctgggcct cccccaatgg ggccctccac tcttcaagt aaggtctcca    480
154  ggtccccacc tgtggggagt ggtcctgcct ctggcggtga gcccaagaat ttcccagtcg    540
156  agtctgaggc tcgactgatg gaggatgtgc tgagaccttt ggaacaggca ttggaagact    600
158  gccgtggcca cacaaggaag caggatatgt atgacatcag ccgacgcctg gcaactgtgc    660
160  aggaacagtg ggctggagga aagttgtcaa taactgtaaa gaagagaatg gctctactgg    720
162  tgcaagagct ttcaagccac cggtagggag cagcagatga catccaccgc tccctcatgg    780
164  ttgaccatgt gactgaggtc agtcagtggg tggtaggagt taaaagatta attgcagaaa    840
166  agaggagtct gttttcagag gaggcagcca atgaagagaa atctgcagcc acagctgaga    900
168  agaaccatac cataccaggc ttccagcagg cttcataatc ctcggttccc cagactcacc    960
170  ggacaccatc tctcaataa gaacggggag acttttccct caacaaaagg aaagacagtc   1020
172  ctatttgac tgtatcacc ttgagatact actgttacag agattagaac cacattgagt   1080
174  ggggttttct gtgtaaatcg aaggagaaaa agaccagatt act                               1123

```

177 &lt;210&gt; SEQ ID NO: 5

178 &lt;211&gt; LENGTH: 19

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```

179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence ✓
182 <220> FEATURE:
183 <223> OTHER INFORMATION: PCR Primer ✓
185 <400> SEQUENCE: 5
186     gtggccacac aaggaagca                                19
189 <210> SEQ ID NO: 6
190 <211> LENGTH: 21
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence ✓
194 <220> FEATURE:
195 <223> OTHER INFORMATION: PCR Primer ✓
197 <400> SEQUENCE: 6
198     ctttcctcca gcccactgtt c                                21
201 <210> SEQ ID NO: 7
202 <211> LENGTH: 22
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial Sequence ✓
206 <220> FEATURE:
207 <223> OTHER INFORMATION: PCR Probe ✓
209 <400> SEQUENCE: 7
210     atgacatcag ccgacgcctg ga                                22
213 <210> SEQ ID NO: 8
214 <211> LENGTH: 19
215 <212> TYPE: DNA
216 <213> ORGANISM: Artificial Sequence ✓
218 <220> FEATURE:
219 <223> OTHER INFORMATION: PCR Primer ✓
221 <400> SEQUENCE: 8
222     gaaggtgaag gtcggagtc                                19
225 <210> SEQ ID NO: 9
226 <211> LENGTH: 20
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial Sequence ✓
230 <220> FEATURE:
231 <223> OTHER INFORMATION: PCR Primer ✓
233 <400> SEQUENCE: 9
234     gaagatggtg atgggatttc                                20
237 <210> SEQ ID NO: 10
238 <211> LENGTH: 20
239 <212> TYPE: DNA
240 <213> ORGANISM: Artificial Sequence ✓
242 <220> FEATURE:
243 <223> OTHER INFORMATION: PCR Probe ✓
245 <400> SEQUENCE: 10
246     caagcttccc gttctcagcc                                20
249 <210> SEQ ID NO: 11
250 <211> LENGTH: 18
251 <212> TYPE: DNA

```

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Input Set : A:\ES.txt

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252 <213> ORGANISM: Artificial Sequence ✓  
 254 <220> FEATURE: ✓  
 255 <223> OTHER INFORMATION: Antisense Oligonucleotide ✓  
 257 <400> SEQUENCE: 11  
 258 cgagcgccctg ggtccgcc 18  
 261 <210> SEQ ID NO: 12  
 262 <211> LENGTH: 18  
 263 <212> TYPE: DNA  
 264 <213> ORGANISM: Artificial Sequence ✓  
 266 <220> FEATURE: ✓  
 267 <223> OTHER INFORMATION: Antisense Oligonucleotide ✓  
 269 <400> SEQUENCE: 12  
 270 accctcttgg taagcagc 18  
 273 <210> SEQ ID NO: 13  
 274 <211> LENGTH: 18  
 275 <212> TYPE: DNA  
 276 <213> ORGANISM: Artificial Sequence ✓  
 278 <220> FEATURE: ✓  
 279 <223> OTHER INFORMATION: Antisense Oligonucleotide ✓  
 281 <400> SEQUENCE: 13  
 282 gaggcccagg agaagtct 18  
 285 <210> SEQ ID NO: 14  
 286 <211> LENGTH: 18  
 287 <212> TYPE: DNA ✓  
 288 <213> ORGANISM: Artificial Sequence ✓  
 290 <220> FEATURE: ✓  
 291 <223> OTHER INFORMATION: Antisense Oligonucleotide ✓  
 293 <400> SEQUENCE: 14  
 294 ggagccttac ttgaagga 18  
 297 <210> SEQ ID NO: 15  
 298 <211> LENGTH: 18  
 299 <212> TYPE: DNA ✓  
 300 <213> ORGANISM: Artificial Sequence ✓  
 302 <220> FEATURE: ✓  
 303 <223> OTHER INFORMATION: Antisense Oligonucleotide ✓  
 305 <400> SEQUENCE: 15  
 306 accactcccc acaggtgg 18  
 309 <210> SEQ ID NO: 16  
 310 <211> LENGTH: 18  
 311 <212> TYPE: DNA ✓  
 312 <213> ORGANISM: Artificial Sequence ✓  
 314 <220> FEATURE: ✓  
 315 <223> OTHER INFORMATION: Antisense Oligonucleotide ✓  
 317 <400> SEQUENCE: 16  
 318 agaggcagga ccactccc 18  
 321 <210> SEQ ID NO: 17  
 322 <211> LENGTH: 18  
 323 <212> TYPE: DNA  
 324 <213> ORGANISM: Artificial Sequence

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Input Set : A:\ES.txt

Output Set: N:\CRF3\10112001\I937646.raw

326 <220> FEATURE:  
 327 <223> OTHER INFORMATION: Antisense Oligonucleotide ✓  
 329 <400> SEQUENCE: 17  
 330 gctccacgcc agaggcag 18  
 333 <210> SEQ ID NO: 18  
 334 <211> LENGTH: 18  
 335 <212> TYPE: DNA  
 336 <213> ORGANISM: Artificial Sequence ✓  
 338 <220> FEATURE:  
 339 <223> OTHER INFORMATION: Antisense Oligonucleotide ✓  
 341 <400> SEQUENCE: 18  
 342 aaacttggtgg gctccacg 18  
 345 <210> SEQ ID NO: 19  
 346 <211> LENGTH: 18  
 347 <212> TYPE: DNA  
 348 <213> ORGANISM: Artificial Sequence ✓  
 350 <220> FEATURE:  
 351 <223> OTHER INFORMATION: Antisense Oligonucleotide ✓  
 353 <400> SEQUENCE: 19  
 354 ctcgactggg aaacttgt 18  
 357 <210> SEQ ID NO: 20  
 358 <211> LENGTH: 18  
 359 <212> TYPE: DNA  
 360 <213> ORGANISM: Artificial Sequence ✓  
 362 <220> FEATURE:  
 363 <223> OTHER INFORMATION: Antisense Oligonucleotide ✓  
 365 <400> SEQUENCE: 20  
 366 gagcctcaga ctcgactg 18  
 369 <210> SEQ ID NO: 21  
 370 <211> LENGTH: 18  
 371 <212> TYPE: DNA  
 372 <213> ORGANISM: Artificial Sequence ✓  
 374 <220> FEATURE:  
 375 <223> OTHER INFORMATION: Antisense Oligonucleotide ✓  
 377 <400> SEQUENCE: 21  
 378 ctccatcagt cgagcctc 18  
 381 <210> SEQ ID NO: 22  
 382 <211> LENGTH: 18  
 383 <212> TYPE: DNA  
 384 <213> ORGANISM: Artificial Sequence ✓  
 386 <220> FEATURE:  
 387 <223> OTHER INFORMATION: Antisense Oligonucleotide ✓  
 389 <400> SEQUENCE: 22  
 390 cagcacatcc tccatcag 18  
 393 <210> SEQ ID NO: 23  
 394 <211> LENGTH: 18  
 395 <212> TYPE: DNA  
 396 <213> ORGANISM: Artificial Sequence ✓  
 398 <220> FEATURE:

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/937,646

DATE: 10/11/2001

TIME: 10:02:44

Input Set : A:\ES.txt

Output Set: N:\CRF3\10112001\I937646.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date